

TH980404 PUS

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PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted with Initial Filing OR Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	41001
First Named Inventor	Ernst Eberlein
COMPLETE IF KNOWN	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and Apparatus for Fine Frequency Synchronization in Multi-Carrier Demodulation Systems

the specification of which

(Title of the Invention)

is attached hereto

OR

was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	Certified Copy Attached? NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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NOV 29 2000 DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental SheetPage 2 of 2

Name of Additional Joint Inventor, if any:

 A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Albert

Heuberger

Inventor's Signature

Date

11/21/00

Residence: City

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State

Country

Germany

Citizenship

German

Post Office Address

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Post Office Address

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State

ZIP

D-91056

Country

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Name of Additional Joint Inventor, if any:

 A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Heinz

Gerhaeuser

Inventor's Signature

Date

11/21/00

Residence: City

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Germany

Citizenship

German

Post Office Address

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Post Office Address

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Waischenfeld

State

ZIP

D-91344

Country

Germany

Name of Additional Joint Inventor, if any:

 A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Family Name or Surname

Inventor's Signature

Residence: City

State

Country

Citizenship

Post Office Address

Post Office Address

City

State

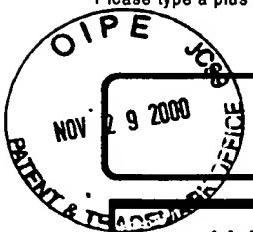
ZIP

Country

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**DECLARATION****ADDITIONAL INVENTOR(S)
Supplemental Sheet**Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any]).		Family Name or Surname						
<u>Sabah</u>		<u>Badri</u>						
Inventor's Signature	<u>S. Rad</u>					Date	11/22/00	
Residence: City	<u>Erlangen</u>	<u>D</u>	State		Country	<u>Germany</u>	Citizenship	<u>Moroccan</u>
Post Office Address	<u>Sebaldusstrasse 8</u>							
Post Office Address								
City	<u>Erlangen</u>	<u>D</u>	State		ZIP	<u>D-91058</u>	Country	<u>Germany</u>
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
<u>Stefan</u>		<u>Lipp</u>						
Inventor's Signature	<u>S. Lipp</u>					Date	11/22/00	
Residence: City	<u>Erlangen</u>	<u>D</u>	State		Country	<u>Germany</u>	Citizenship	<u>German</u>
Post Office Address	<u>Steinweg 9 a</u>							
Post Office Address								
City	<u>Erlangen</u>	<u>D</u>	State		ZIP	<u>D-91058</u>	Country	<u>Germany</u>
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])		Family Name or Surname						
<u>Stephan</u>		<u>Buchholz</u>						
Inventor's Signature	<u>S. Buchholz</u>					Date		
Residence: City	<u>Muenchen</u>	<u>D</u>	State		Country	<u>Germany</u>	Citizenship	<u>German</u>
Post Office Address	<u>Kerschlacher Strasse 8</u>							
Post Office Address								
City	<u>Muenchen</u>	<u>D</u>	State		ZIP	<u>D-81447</u>	Country	<u>Germany</u>

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**Declaration
Submitted
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Submitted after Initial
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(37 CFR 1.16 (e))
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Attorney Docket Number	41001
First Named Inventor	Ernst Eberlein
<i>COMPLETE IF KNOWN</i>	
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I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

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the specification of which

(Title of the Invention)

is attached hereto

IS A
OR

was filed on (MM/DD/YYYY) **04/14/98** as United States Application Number or PCT International

Application Number PCT/EP98/02184 and was amended on (MM/DD/YY) [redacted] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56

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Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			<input type="checkbox"/>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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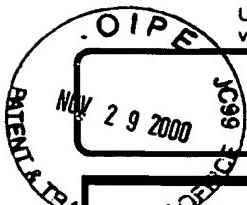
O I P
NOV 29 2000

DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])				Family Name or Surname				
Sabah		Badri						
Inventor's Signature							Date	
Residence: City	Erlangen	State		Country	Germany	Citizenship	Moroccan	
Post Office Address	Sebalodusstrasse 8							
Post Office Address								
City	Erlangen	State		ZIP	D-91058	Country	Germany	
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor						
Given Name (first and middle [if any])				Family Name or Surname				
Stefan		Lipp						
Inventor's Signature							Date	
Residence: City	Erlangen	State		Country	Germany	Citizenship	German	
Post Office Address	Steinweg 9 a							
Post Office Address								
City	Erlangen	State		ZIP	D-91058	Country	Germany	
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Given Name (first and middle [if any])				Family Name or Surname				
Stephan		Buchholz						
Inventor's Signature	<i>Stephan Buchholz</i>						Date	11/20/00
Residence: City	Muenchen	State		Country	Germany	Citizenship	German	
Post Office Address	Kerschlacher Strasse 8							
Post Office Address								
City	Muenchen	State		ZIP	D-81447	Country	Germany	

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**DECLARATION****ADDITIONAL INVENTOR(S)
Supplemental Sheet**Page 2 of 2

Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])		Family Name or Surname					
Albert		Heuberger					
Inventor's Signature							Date
Residence: City	Erlangen	State		Country	Germany	Citizenship	German
Post Office Address	Hausaeckerweg 18						
Post Office Address							
City	Erlangen	State		ZIP	D-91056	Country	Germany
Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])		Family Name or Surname					
Heinz		Gerhaeuser					
Inventor's Signature							Date
Residence: City	Waischenfeld	State		Country	Germany	Citizenship	German
Post Office Address	Saugendorf 17						
Post Office Address							
City	Waischenfeld	State		ZIP	D-91344	Country	Germany
Name of Additional Joint Inventor, If any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])		Family Name or Surname					
Inventor's Signature							Date
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		ZIP		Country	

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT International application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Customer Number →
 OR
 Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
David S. Abrams	22,576	Stacey J. Longanecker	33,952
Robert H. Berdo	19,415	Joseph J. Buczynski	35,084
Alfred N. Goodman	26,458	Wayne C. Jaeschke, Jr.	38,503
Mark S. Bicks	28,770	Tara Laster Hoffman	P-46,510
John E. Holmes	29,392	Jeffrey J. Howell	46,402
Garrett V. Davis	32,023	Marcus R. Mickney	44,941
Lance G. Johnson	32,531	Christian C. Michel	46,300

Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: Customer Number OR Correspondence address below

Name	John E. Holmes				
Address	Roylance, Abrams, Berdo & Goodman, L.L.P.				
Address	1300 19th Street, N.W., Suite 600				
City	Washington	State	D.C.	ZIP	20036
Country	USA	Telephone	(202)659-9076	Fax	(202)659-9344

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])		Family Name or Surname		
Ernst		Eberlein		

Inventor's Signature					Date	
Residence: City	Grossenseebach	State	Country	Germany	Citizenship	German

Post Office Address Waldstrasse 28 b

Post Office Address

City Grossenseebach State ZIP D-91091 Country Germany

Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

Please type a plus sign (+) inside this box → +

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U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number <i>(if applicable)</i>

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As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Customer Number _____ → *Place Customer Number Bar Code Label here*
OR
 Registered practitioner(s) name/registration number listed below

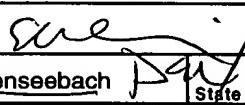
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Garrett V. Davis	32,023	Marcus R. Mickley	44,941
Lance G. Johnson	32,531	Christian C. Michel	46,300

Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: Customer Number _____ OR Correspondence address below

Name	<u>John E. Holmes</u>				
Address	<u>Roylance, Abrams, Berdo & Goodman, L.L.P.</u>				
Address	<u>1300 19th Street, N.W., Suite 600</u>				
City	<u>Washington</u>	State	<u>D.C.</u>	ZIP	<u>20036</u>
Country	<u>USA</u>	Telephone	<u>(202)659-9076</u>		Fax <u>(202)659-9344</u>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle if any)			Family Name or Surname				
<u>Ernst</u>			<u>Eberlein</u>				
Inventor's Signature						Date	<u>11/21/00</u>
Residence: City	<u>Grossenseebach</u>	<u>Denk</u>	State	Country	<u>Germany</u>	Citizenship	<u>German</u>
Post Office Address	<u>Waldstrasse 28 b</u>						
Post Office Address							
City	<u>Grossenseebach</u>	State		ZIP	<u>D-91091</u>	Country	<u>Germany</u>

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